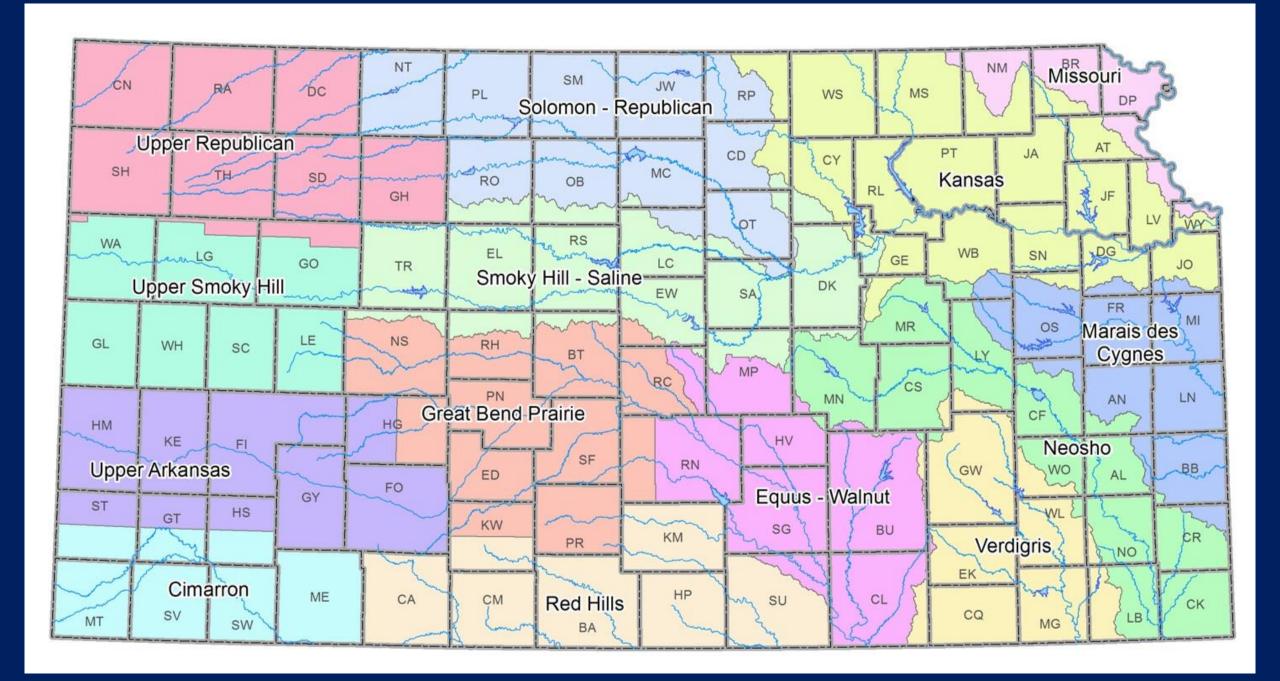
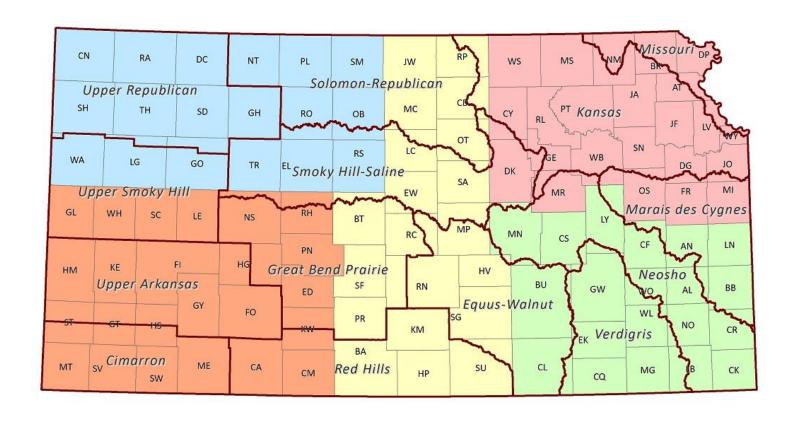
KANSAS WATER VISION IMPLEMENTATION — A REGIONAL APPROACH



State Conservation Commission Area Spring Workshops
March 8, 2017

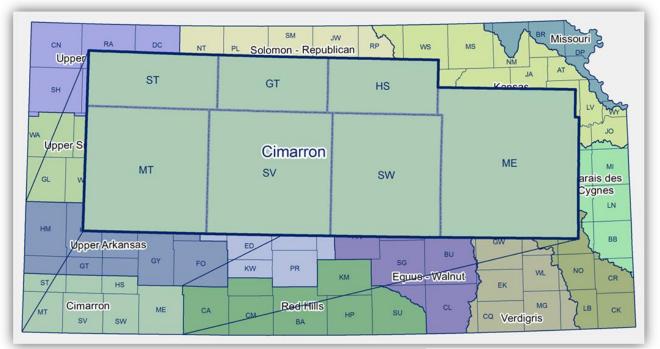
REGIONAL ADVISORY COMMITTEES



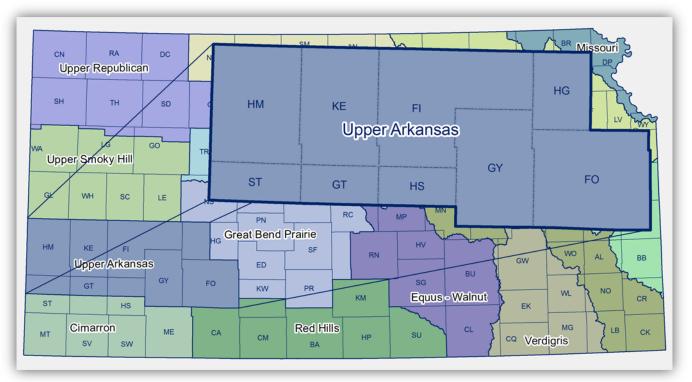


Kansas Conservation District Areas

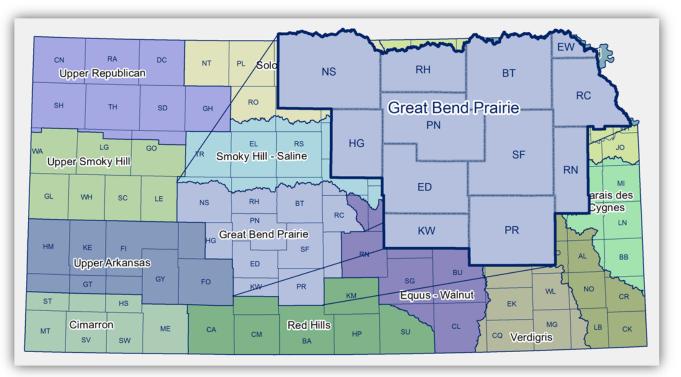




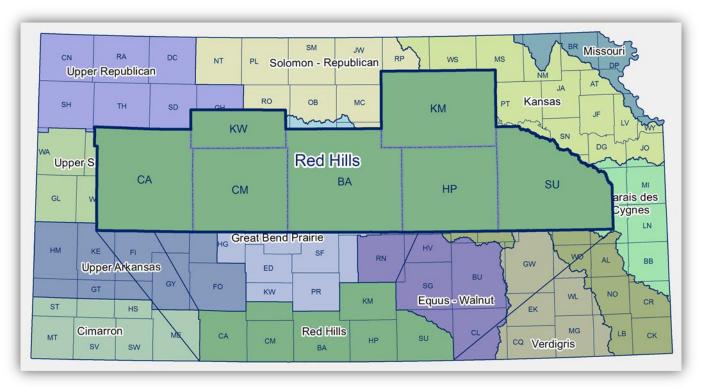
Membership				
Name	City	Category	Term	
Nick Hatcher (Chair)	Liberal, KS	Industry/Commerce (cc)	2019	
Vacant		At Large Public 4	2019	
Trista Brown	Satanta, KS	At Large Public 2	2017	
Michael Bryant	Kansas	Agriculture 2	2019	
Calvin Burke	Liberal, KS	Public Water Supply (cc)	2019	
Kirk Heger	Hugoton, KS	Irrigation	2017	
Brian Hemann	Hugoton, KS	Agricultural Industry	2019	
Matt Higgins	Elkhart, KS	Public Water Supply 2	2017	
Danny Law	Ullysses, KS	Conservation/Environment (cc)	2019	
Vacant		At Large Public 3	2019	
Bret Rooney	Satanta, KS	Groundwater Management	2017	
Jim Sipes	Manter, KS	Agriculture (cc)	2017	
Ellen Verell	Meade, KS	At Large Public (cc)	2017	



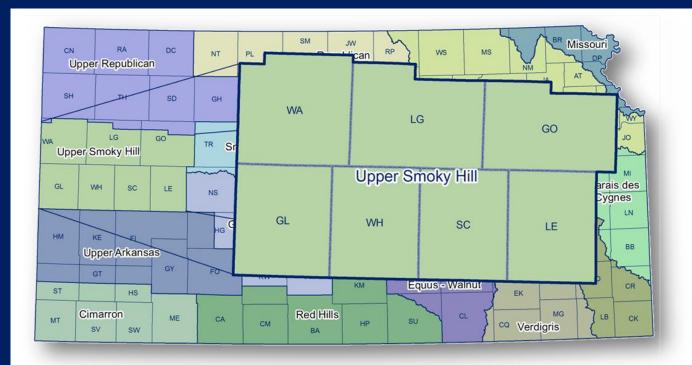
Membership Membership				
Name	City	Category	Term	
Ted Boersma (Chair)	Cimarron, KS	Dairy	2017	
Hugh Brownlee	Syracuse, KS	At Large Public (cc)	2017	
Roy Dixon	Garden City, KS	Agriculture Industry	2017	
Bill Simshauser	Lakin, KS	At Large Public 2	2017	
Steven Hines	Coolidge, KS	Surface Water Irrigation	2017	
Titus Jaeger	Lakin, KS	Groundwater Irrigation	2019	
Fred Jones	Garden City, KS	Public Water Supply (cc)	2017	
Joe Jury Ingalls, KS		Agriculture (cc)	2019	
Wayne Keller Ford, KS		At Large Public 3	2017	
Michael MacNair	Jetmore, KS	Conservation/Environment (cc)	2019	
Kyle Nelson Holcomb, KS		Industry/Commerce (cc)	2019	
Mike O'Brate Ingalls, KS		Groundwater Management	2019	
Ray Slattery Dodge City, KS		Public Water Supply 2	2019	



Membership Membership				
Name	City	Category	Term	
Berry Bortz (Chair)	Preston, KS	Agriculture (cc)	2019	
Jay Dill	Kinsley, KS	Public Water Supply 2	2017	
Daniel Filbert	Macksville, KS	Agriculture 2	2017	
Orrin Feril	Stafford, Kansas	At Large Public (cc)	2017	
John Haas	Larned, KS	At Large Public 2	2019	
Jeremiah Hobbs	LaCrosse, KS	Watershed Protection	2019	
Jeff Holste	Burdett, KS	Industry/Commerce (cc)	2017	
Lane Massey	Larned, KS	Public Water Supply 3	2019	
Keith Miller	Barton County, KS	Agriculture 3	2019	
Roger Mohr	Albert, KS	Groundwater Irrigation	2019	
John Sweet	Lyons, KS	Public Water Supply (cc)	2019	
Tom Turner	St. John, KS	Conservation/Environment (cc)	2017	
Taggart Wall	Sterling, KS	Public Water Supply 4	2017	



Membership					
Name	City	Category	Term		
Suzanne Drouhard	Danville, KS	Agriculture 2	2017		
(Chair)					
Clark Bibb	Coldwater, KS	At Large Public West	2019		
Ken Brunson	Pratt, KS	Fish & Wildlife	2019		
Jim Harden	Ashland, KS	At Large Public (cc)	2017		
Amber Horbelt	Anthony, KS	Local Government	2017		
Hi Lewis	Wichita, KS	Industry/Commerce (cc)	2019		
Larry Mangan	Wellington, KS	Public Water Supply (cc)	2019		
		Agriculture (cc)	2019		
Mark Watts Medicine Lodge, KS		Industry/Commerce 2	2017		
Phil White Wellington, KS		At Large Public East	2019		
Jay Zimmerman South Haven, KS		Conservation/Environment (cc)	2017		



Membership				
Name	City	Category	Term	
Shane Mann (Chair)	Quinter, KS	Irrigation	2019	
Lonnie Busch	Leoti, KS	Industry/Commerce (cc)	2017	
Kurt Maurath	Logan Co., KS	At Large Public (cc)	2017	
Frank Mercurio	Scott City, KS	Conservation/Environment (cc)	2019	
Maurice Miller	Healy, KS	Agriculture Industry	2019	
Mike Todd	Scott City, KS	Public Water Supply (cc)	2019	
Farrin Watt	Leoti, KS	Agriculture (cc)	2017	
Danny Welsh	Wallace Co., KS	Groundwater Management	2019	
Scott Noll	Scott City, KS	At Large Public 2	2017	



Membership Membership				
Name	City	Category	Term	
Martha Tasker (Chair)	Salina, KS	Public Water Supply (cc)	2019	
Greg Barrett	Marquette, KS	Agriculture 2	2017	
Sandra Beisner	Ellis, KS	Industry/Commerce (cc)	2019	
Toby Dougherty	Hays, KS	Large Public Water Supply	2019	
Paul Froelich	Enterprise, KS	At Large Public 2	2017	
Chris Meyer	Sylvan Grove, KS	Agriculture (cc)	2019	
John Peckham	Salina, KS	Conservation/Environment 2	2019	
Allen Roth	Hays, KS	Conservation/Environment (cc)	2017	
Bevin Law	Longford, KS	Conservation	2017	
Timothy Scheck	Russell, KS	Industry/Commerce 2	2017	
Alan Scheuerman	Ellis, KS	Small Public Water Supply	2019	
Brad Shogren	Lindsborg, KS	Irrigation	2017	

KWA Approves RAC Action Plans

- Nearly 60 action plans developed by RACs in 2016
- 10 of 14 regions have watershed-based goals and action plans

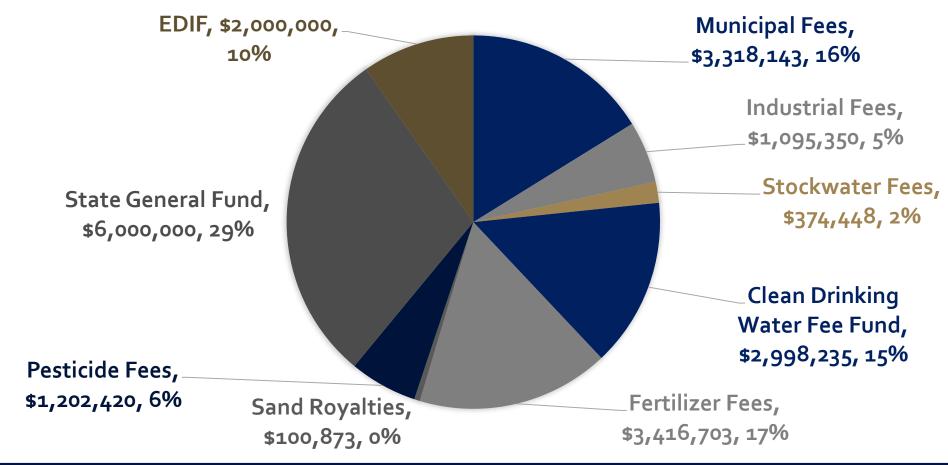




BLUE RIBBON FUNDING TASK FORCE

Vision for the Future of Water Supply in Kansas

Review of existing funding and sources



Supply Conservation WATER Research

VISION

Action Technology

iture **Loc**

Estimation of annual funding requirement to implement the Vision ~ \$55M

	Water Conservation	Water Management	Technology and Crop Varieties	Additional Sources of Water
Research		\$300,000	\$4,500,000	\$500,000
Education and Outreach	\$4,250,000		\$5,000,000	
Actions and Practices	\$21,900,000	\$100,000	\$1,500,000	\$17,500,000
Administration	Should agency administration be paid from implementation funds?			
Total	\$26,150,000	\$400,000	\$11,000,000	\$19,000,000

^{*} Does not include estimated annual funding needs from Regional Advisory Committee Action Plans

Supply Conservation
WATER Research



Action F

Technology

LOCAL

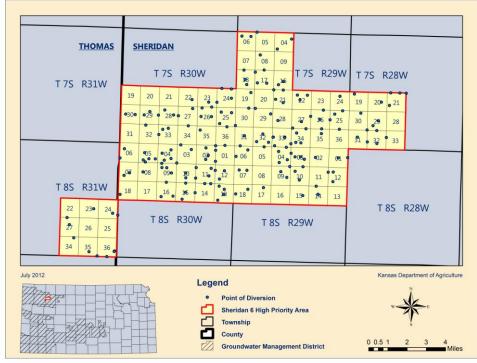
Evaluation of various funding sources

- Increase existing State Water Plan Fund fees
- Water right fee/Irrigation fee
- Bottled drinking water fee
- Residential electric fee
- Statewide retail sales tax

CURRENT IMPLEMENTATION ACTIONS

Local Enhanced Management Areas (LEMA)

- Sheridan County First approved 55 inches over 5 yrs
- Overall water reduction 20% +
- Producers allowed to move water within boundaries
- Groundwater levels increased inside LEMA in 2015
- Economic results positive so far

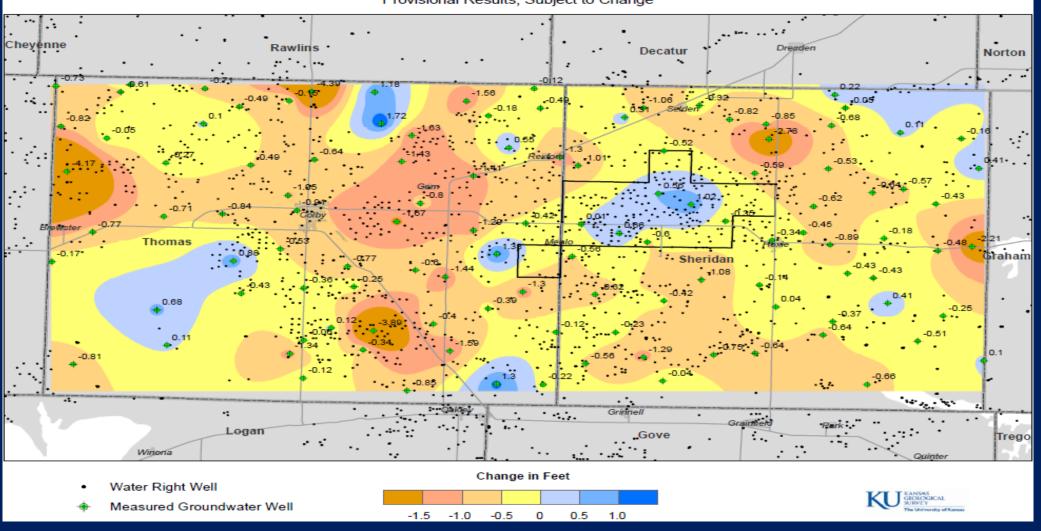


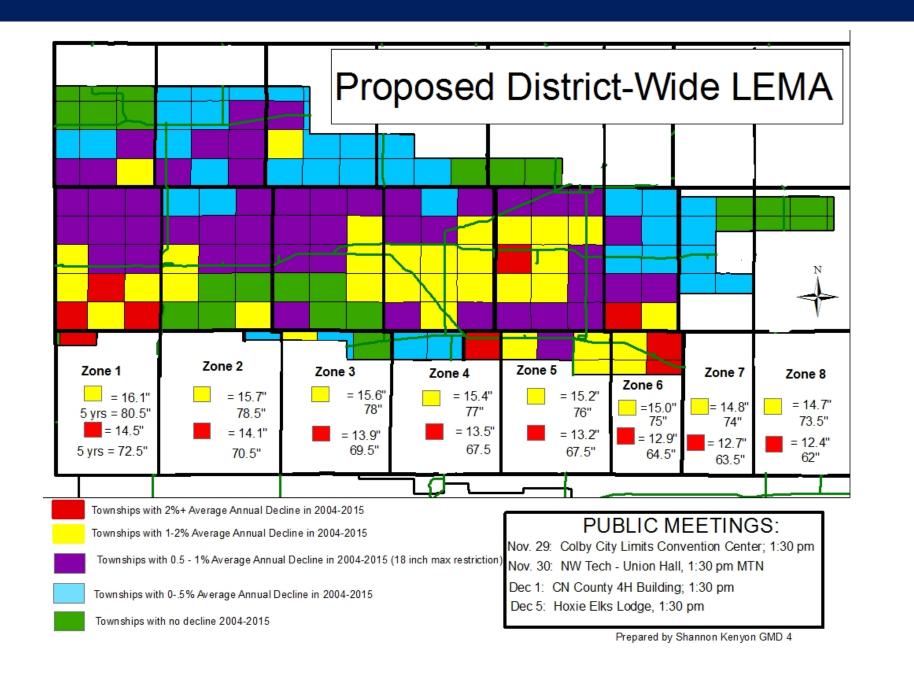
- Approved by 2012 Legislature
- Locally-led through groundwater management districts
- Allows for locally identified water use reductions with state enforcement
 - Water use flexibilities allowed
 - Does not permanently alter water right
 - Water allocations packaged into 5 year flex accounts



Interpolated 2015-2016 Water Level Change, Thomas and Sheridan Counties, Kansas

Cooperative Water Level Network Kansas Geological Survey, KDA- Division of Water Resource Provisional Results, Subject to Change





LEMA discussions underway in FI and KE Counties

- Stakeholders and GMD #3 conducting meetings for a possible LEMA in NW Finney and E Kearny County
- Dwane Roth and Garden City providing leadership for this effort

WATER CONSERVATION AREAS

What are Water Conservation Areas (WCAs)

- Signed into law in April 2015 by Governor Sam Brownback
- Provide a tool to water right owners to extend the usable lifetime of the Ogallala-High Plains Aquifer
- Developed by a water right owner or group of water right owners with the consent of the chief engineer to reduce water withdrawals while maintaining economic value via water right flexibility

WCA's

- 5 approved
- Up to 30 in the works
- WCAs located in Hamilton, Finney, Wichita, Scott and Lane Co's

WATER TECHNOLOGY FARMS

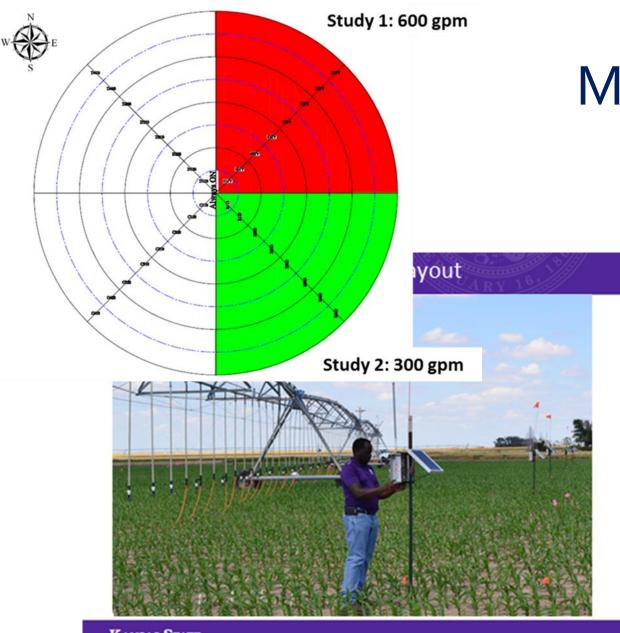
Water Technology Farms



- Three Water
 Technology Farms
 established for 2016
 growing season.
- KSU providing technical assistance at all three.
- Up to 7 additional farms to be added for 2017



Showcase on a field scale, the latest technologies in irrigation infrastructure, irrigation water management, soil moisture management, conservation tillage, automation telemetry and other agronomic practices aimed at reducing water use.



MDI Evaluation - KSU

- 2015 results comparing MDI to spray nozzles
 - 30% reduction in evaporation
 - 14" applied @ 600 gpm 8" @ 300 gpm
 - 247 bu/ac @ 600 gpm 243 bu/ac @ 300 gpm
 - 10% increase in yield with MDI on the 300 gpm well
 - Water evenly distributed in soil profile
 - Dry soil surface
 - Minimal wheel tracks



QUESTIONS & DISCUSSION

Tracy Streeter, Director Kansas Water Office 900 SW Jackson, Suite 404 Topeka, KS 66612 785-296-3185 tracy.streeter@kwo.ks.gov





RESERVOIR ACTIVITIES

John Redmond Reservoir Dredging

- ➤ Backup supply to state's only nuclear power plant
- ➤1st water supply dredging project at a USACE reservoir in the US
- ➤ Phase I completed ahead of schedule



John Redmond Reservoir Dredging



More than 1,800 acre-feet of storage restored

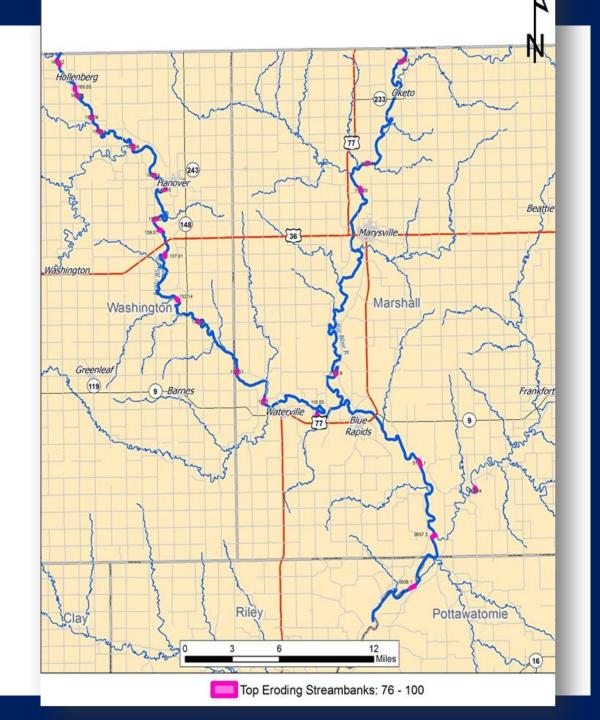
3,000,000 million cubic yards of deposited sediment removed



Restore and dispose up to three million cubic yards of sediment from John Redmond Reservoir.

Tuttle Creek Sediment Reduction

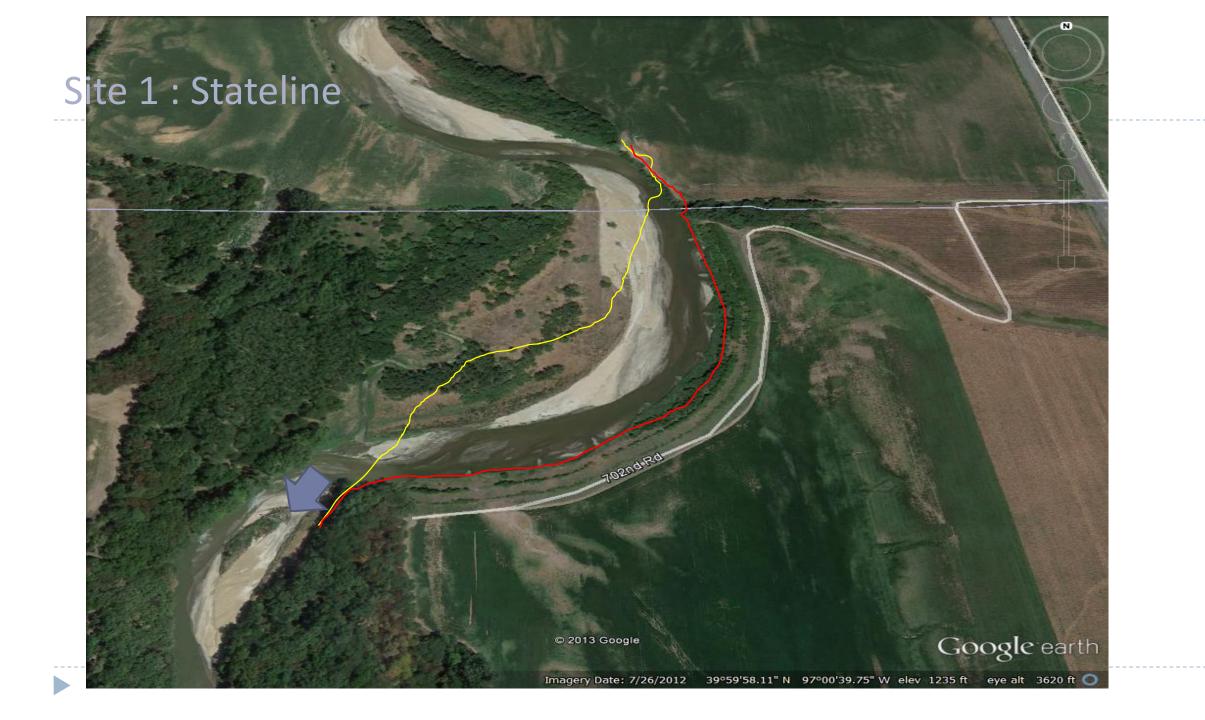
- Tuttle Creek WRAPS, KWO, KDHE and KDA-DOC coordinating and pooling funds to complete projects
- >\$800,000 allocated for FY16 and FY17
- >FY16 funding will be used to pay for the design of several projects above Tuttle Creek
- ➤ Construction will occur over the next couple of years



Before & After







Nutrients and Harmful Blue-Green Algae Milford, Marion Reservoirs & others.....

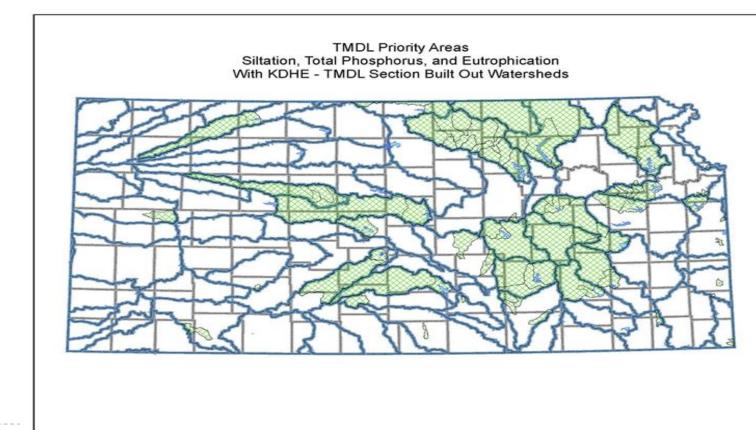






EQIP

- Ranking criteria for WaterQuality funding modified
 - Maximum points to projects addressing Siltation, Phosphorus and Eutrophication





QUESTIONS & DISCUSSION

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Earl Lewis, Assistant Director Kansas Water Office 900 SW Jackson, Suite 404 Topeka, KS 66612 785-296-3185 earl.lewis@kwo.ks.gov



